



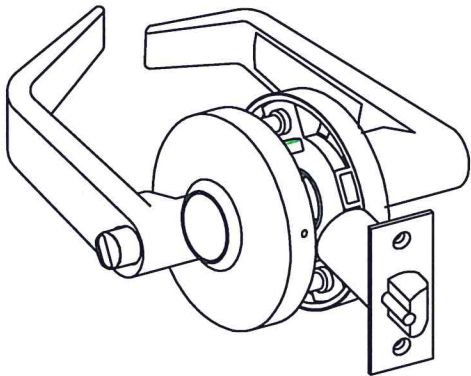
6605 Flotilla Street
City of Commerce
CA 90040

"Pioneer Series" CYLINDRICAL LOCK &
"T300 Series" DEADBOLT
in a
STEEL COMMERCIAL DOOR
INSWING / OUTSWING
"IMPACT"

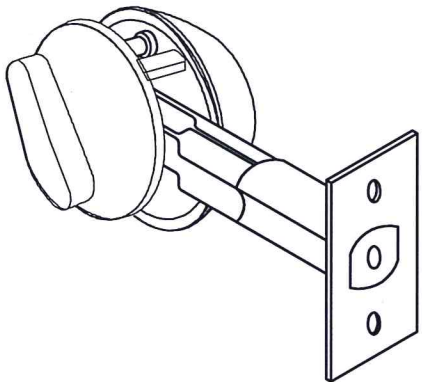
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. This product has been tested in the door panels as specified in this approval. Substitution into a similar product may be approved for use by the local Authority Having Jurisdiction. In all cases, the steel door used must possess a comparable current Florida Statewide product approval. The door panel size and design pressure (DP) rating shall not exceed the sizes and DP ratings shown in this approval or the steel side hinged swing door approval being used.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product does not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
7. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.

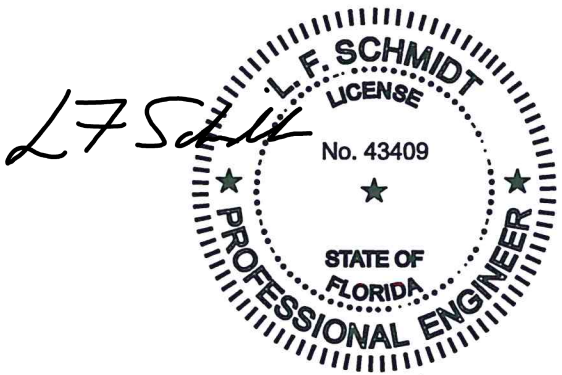
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	"Pioneer Series" lock details
3	"T300 Series" deadbolt details
4	Door panel details (7' active panel)
5	Door panel details (7' inactive panel)
6	Door panel details (8' active panel)



"Pioneer Series" Cylindrical Lock

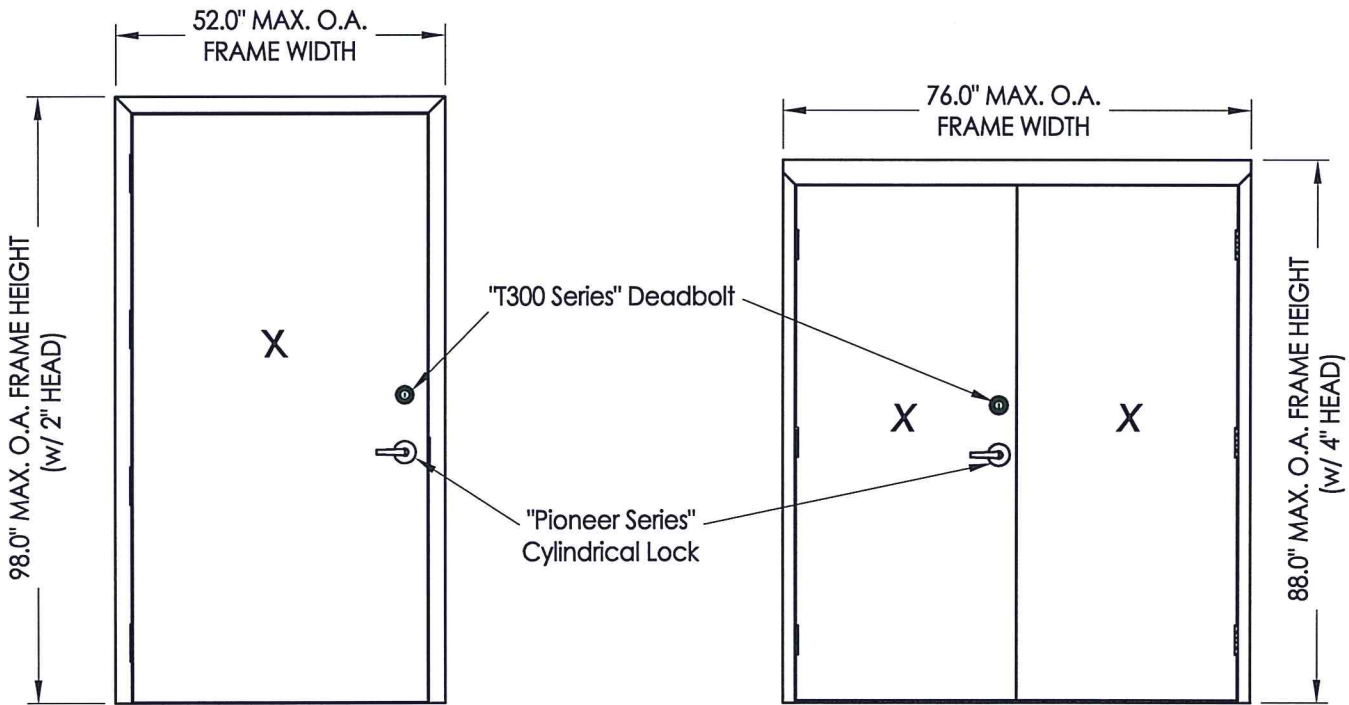


"T300 Series" Deadbolt



This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



CONFIGURATION	MAX FRAME DIMENSION	LOCK & DEADBOLT TYPE	DESIGN PRESSURE (PSF)			
			INSWING		OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
SINGLE	40.0" x 88.0"	"Pioneer Series" Cylindrical Lock & "T300 Series" Deadbolt (CAL-ROYAL)	+55.0	-55.0	+80.0	-80.0
SINGLE	52.0" x 98.0"		N/A	N/A	+80.0	-80.0
DOUBLE	76.0" x 88.0"		+55.0	-55.0	+55.0	-55.0

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

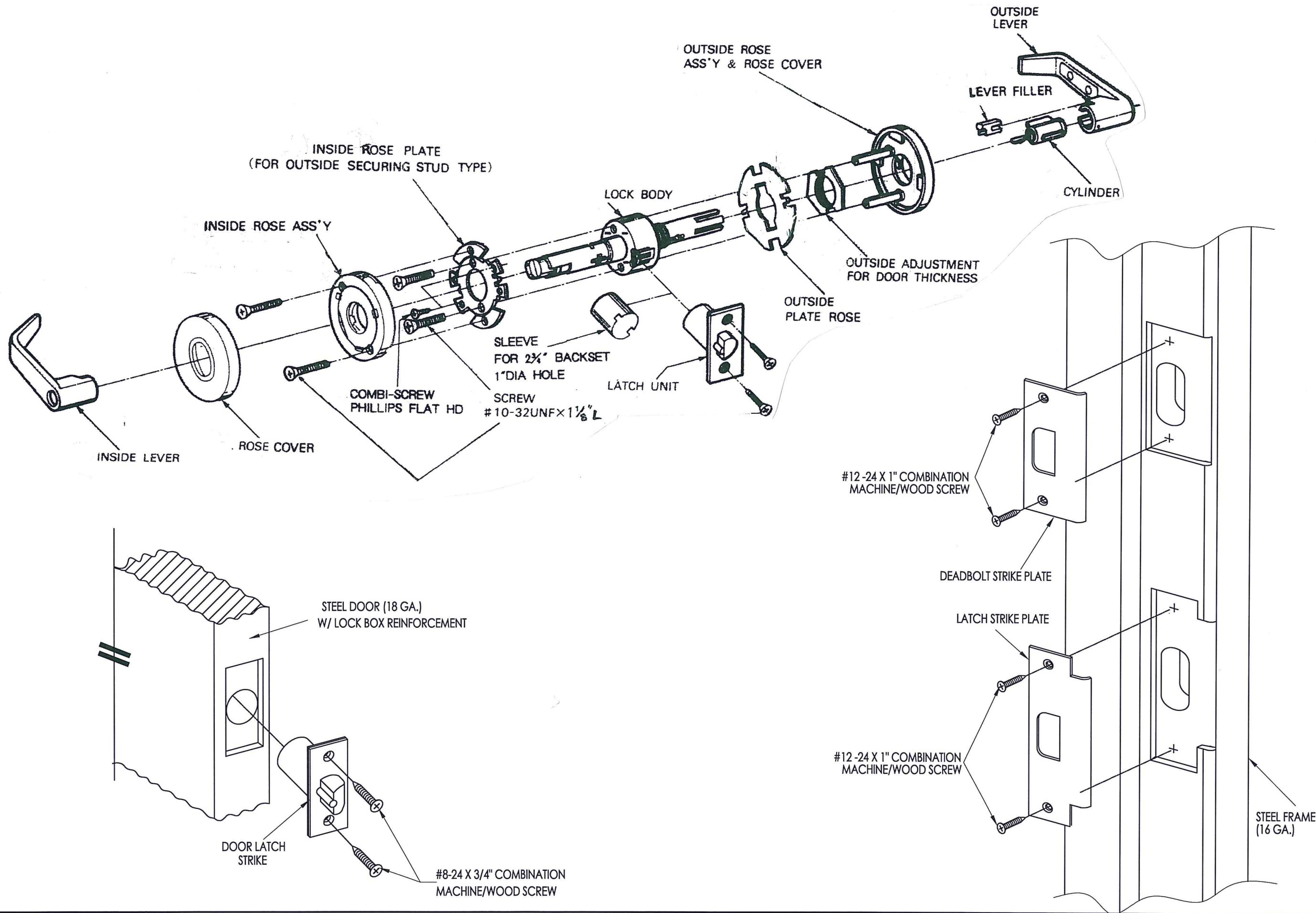
PRODUCT:
CAL-ROYAL
LOCK AND DEADBOLT

NO.	DATE	REVISIONS
7	7/05/23	UPDATE TO 8TH ED. (2023) FBC
6	11/16/20	UPDATE TO 7TH ED. (2020) FBC
5	9/27/17	UPDATE TO 6TH ED. (2017) FBC
4	1/27/15	UPDATE TO 5TH ED. (2014) FBC
3	8/14/14	ADDED 52"x98" SINGLE OUTSWING
2		
1		

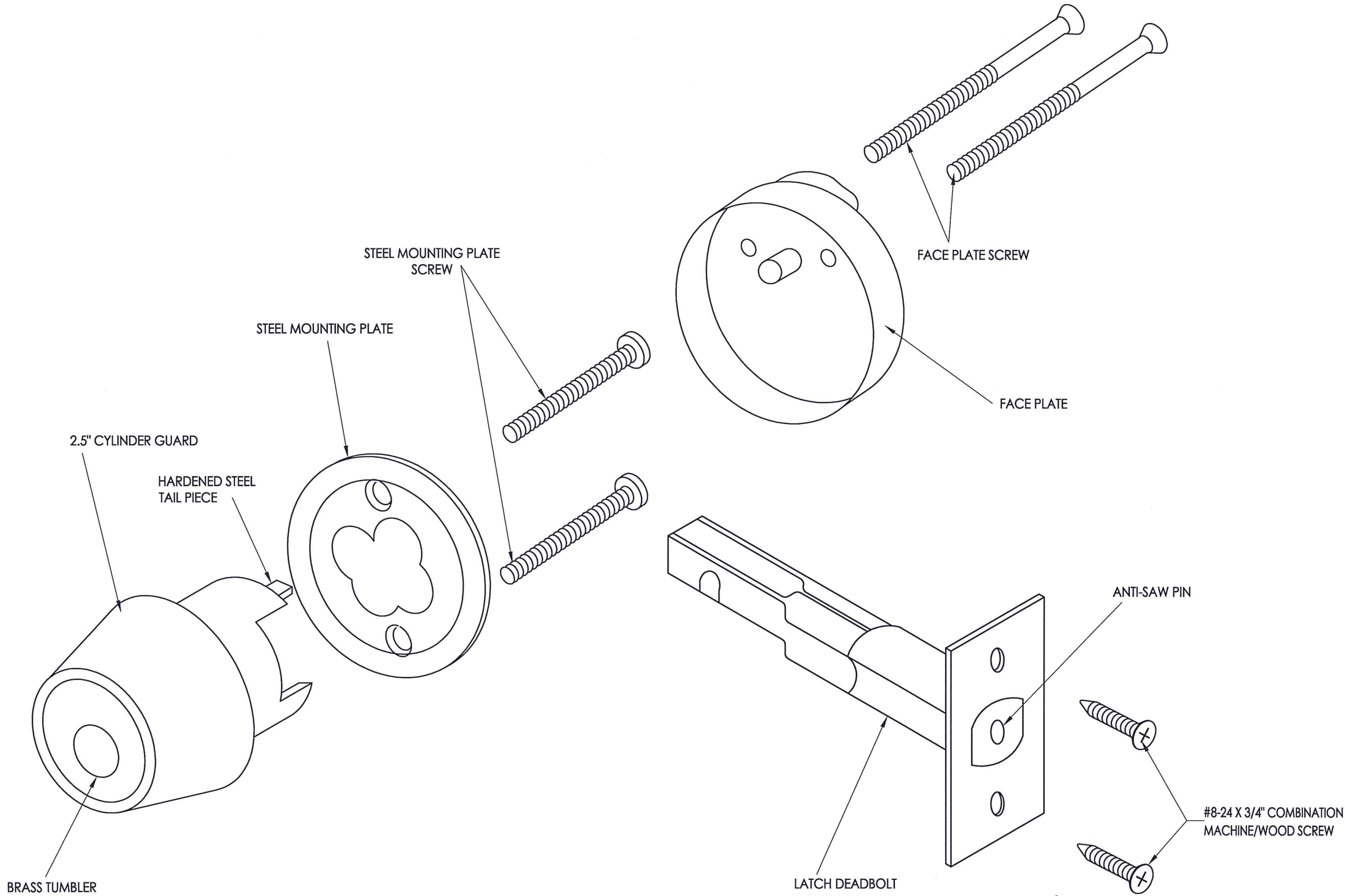
DATE: 5/12/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-13922.6
SHEET 1 OF 6

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

Z:\2023 FBC Drawings\CAL-ROYAL\FL-13922 R9\FL-13922.5-6.dwg

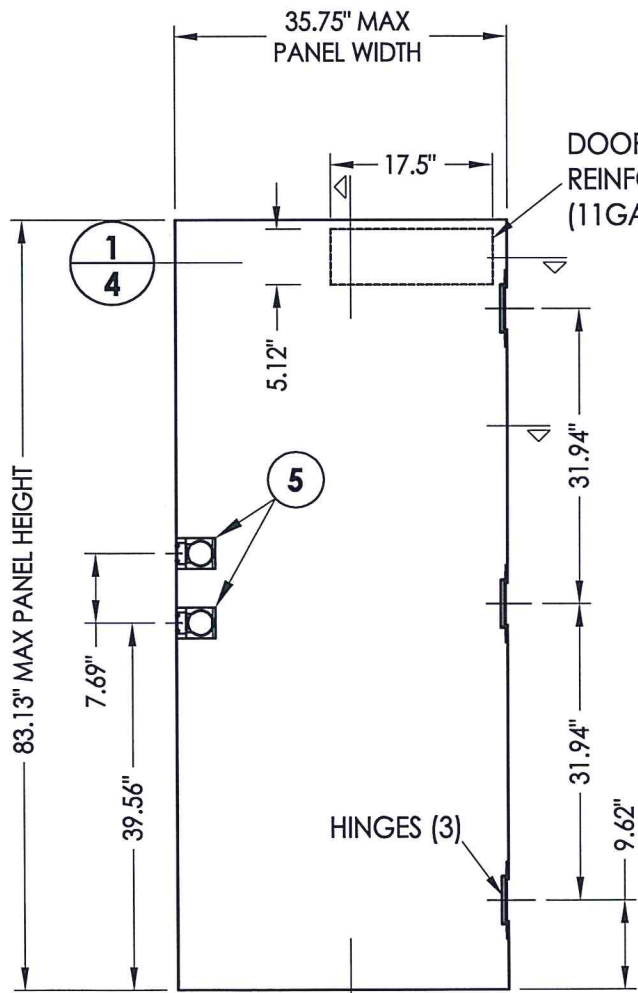


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: CAL-ROYAL LOCK & DEADBOLT		PART OR ASSEMBLY: "PIONEER SERIES" LOCK DETAILS	
7	7/05/23	UPDATE TO 8TH ED. (2023)	FBC
6	11/16/20	UPDATE TO 7TH ED. (2020)	FBC
5	9/27/17	UPDATE TO 6TH ED. (2017)	FBC
4	1/27/15	UPDATE TO 5TH ED. (2014)	FBC
3	8/14/14	ADDED 52"x98" SINGLE OUTSWING	LFS
NO.	DATE	REVISIONS	
DATE: 5/12/11		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-13922.6		SHEET 2 OF 6	

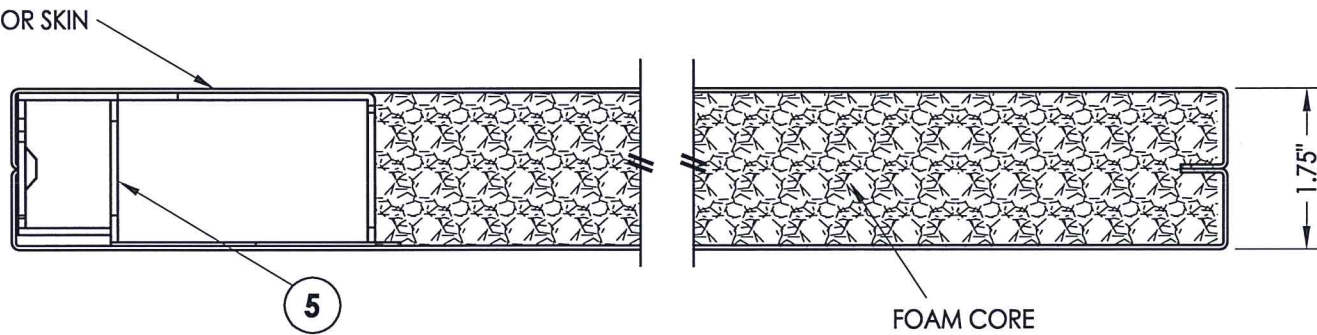


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT:				CAL-ROYAL LOCK AND DEADBOLT			
PART OR ASSEMBLY:				"T300 Series" DEADBOLT DETAILS			
7	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
6	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
5	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	JK			
4	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK			
3	8/14/14	ADDED 52"x98" SINGLE OUTSWING	LFS	BY			
NO.	DATE				REVISIONS		
DATE: 5/12/11							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-13922.6							
SHEET 3 OF 6							

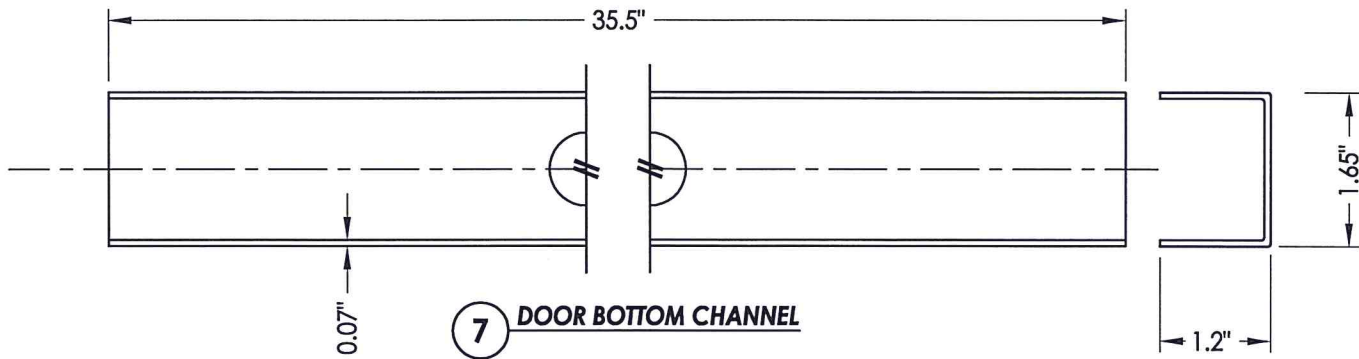
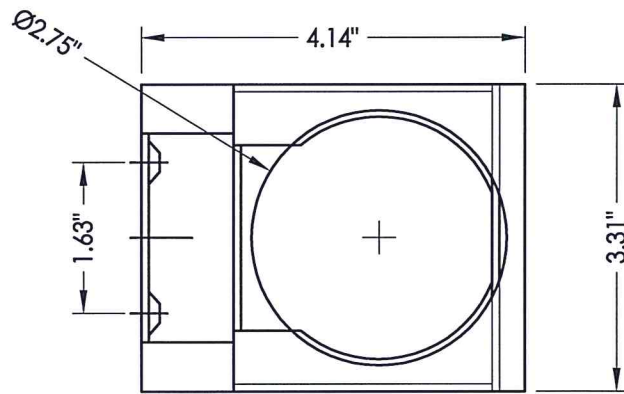
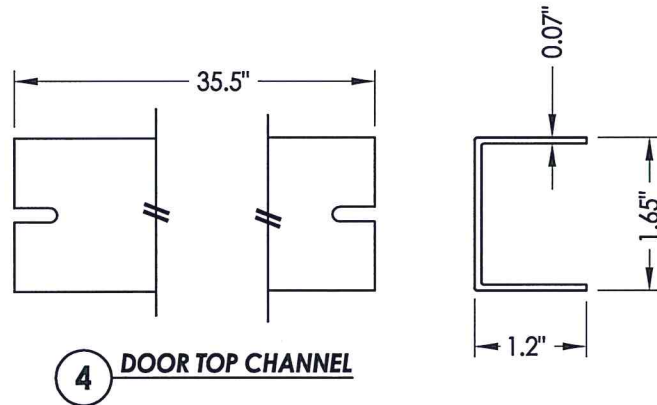
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



1 CAL-ROYAL DOOR PANEL
7" Active Door Panel

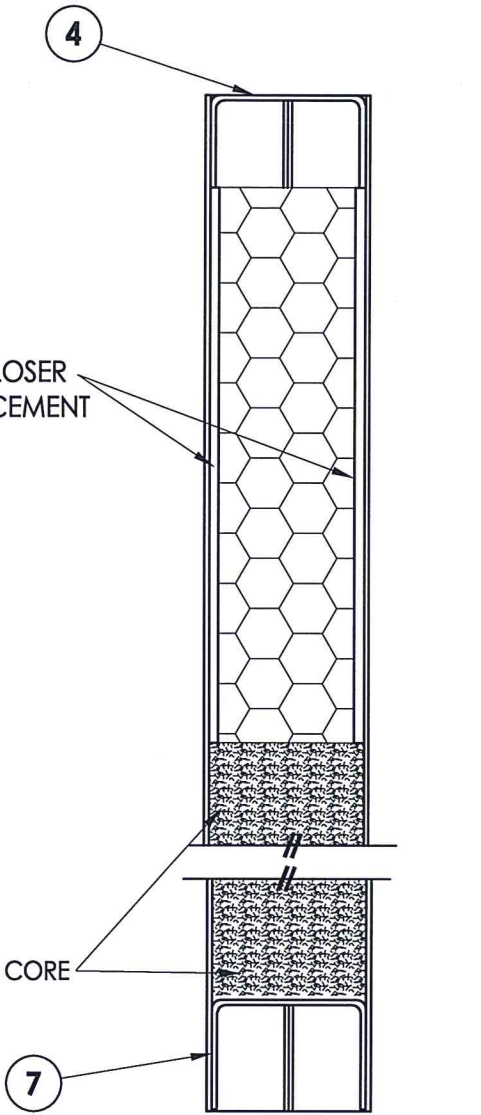


1 4 HORIZONTAL CROSS SECTION



DOOR CLOSER
REINFORCEMENT

FOAM CORE



2 4 VERTICAL CROSS SECTION

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
CAL-ROYAL
LOCK AND DEADBOLT

PART OR ASSEMBLY:
DOOR PANEL DETAILS
(7' active panel)

		LFS	FBC	FBC	FBC	JK	JK	LFS	BY
7	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	FBC	FBC	FBC	FBC	FBC	BY
6	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	FBC	FBC	FBC	FBC	FBC	BY
5	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	FBC	FBC	FBC	FBC	FBC	BY
4	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	FBC	FBC	FBC	FBC	FBC	BY
3	8/14/14	ADDED 52"x98" SINGLE OUTSWING	FBC	FBC	FBC	FBC	FBC	FBC	BY
NO.	DATE	REVISIONS							

DATE: 5/12/11

SCALE: N.T.S.

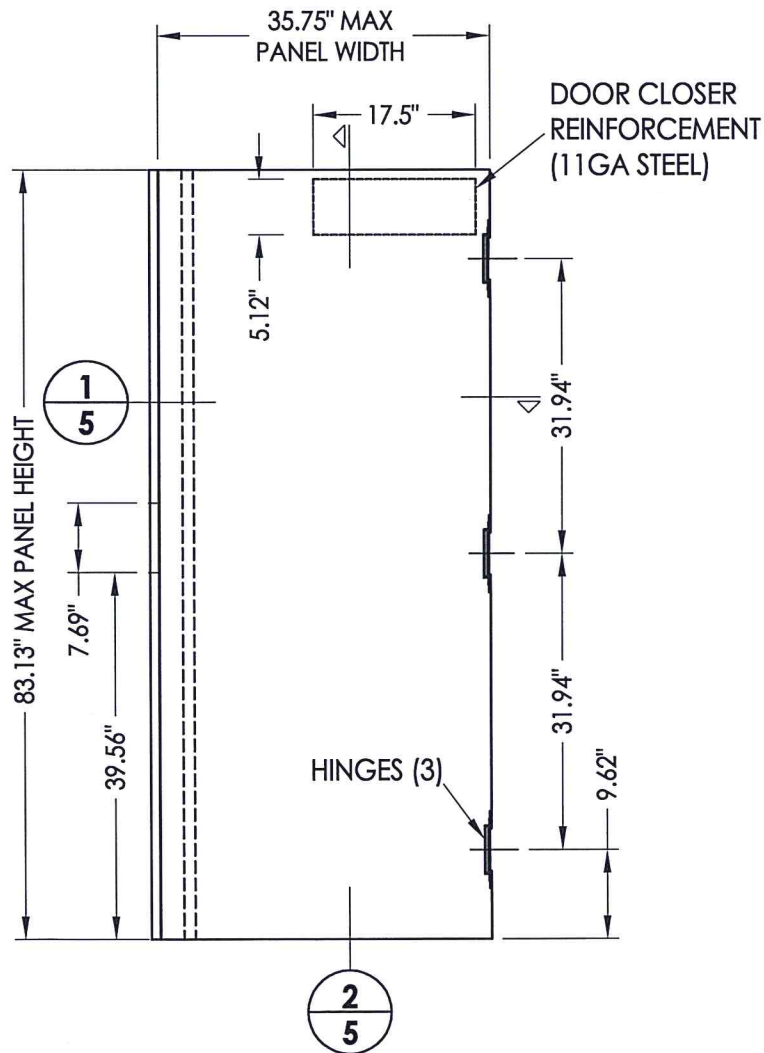
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-13922.6

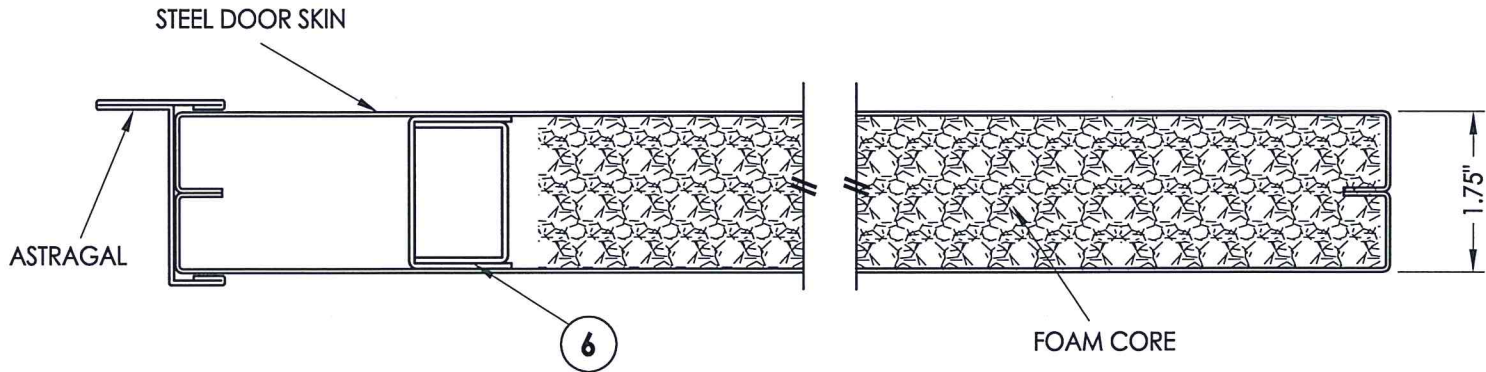
SHEET 4 OF 6

Z:\2023 FBC Drawings\CAL-ROYAL\FL-13922 R9\FL-13922.5-6.dwg

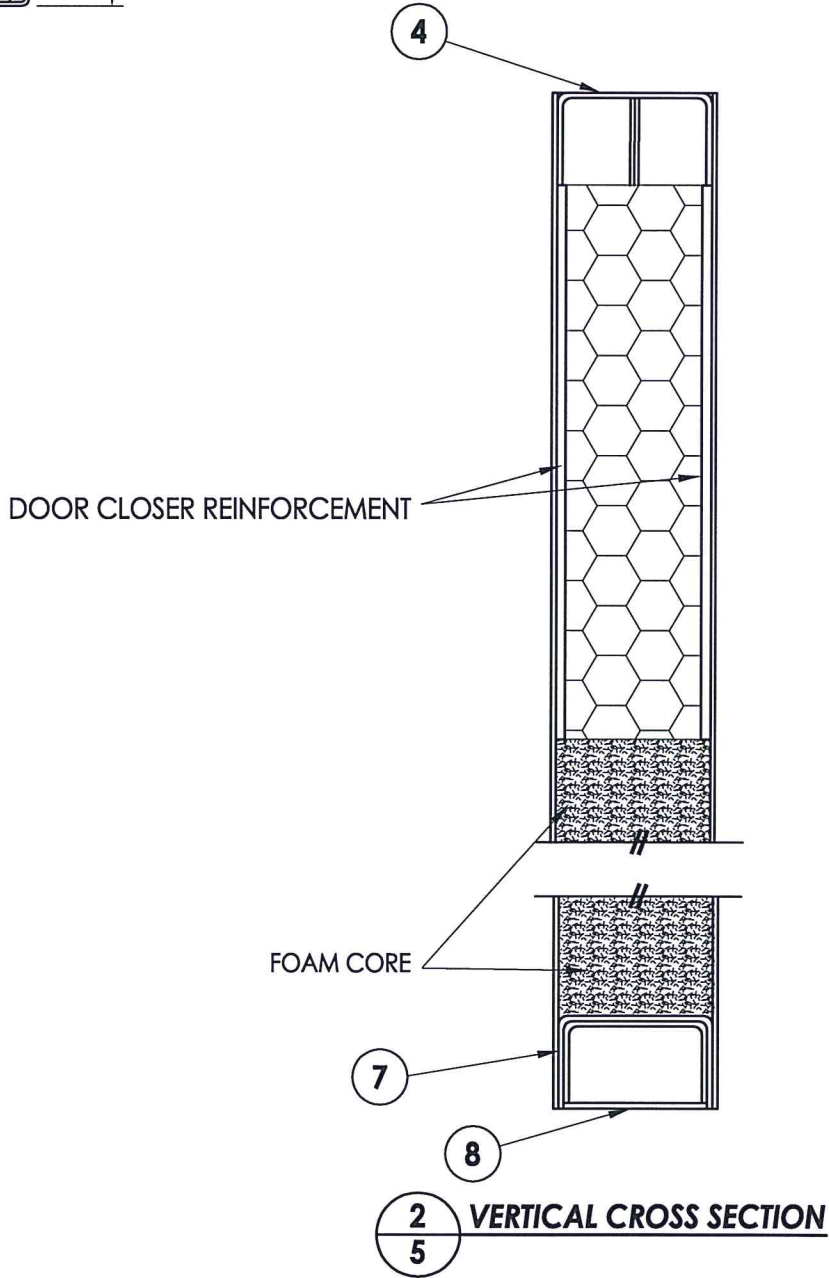
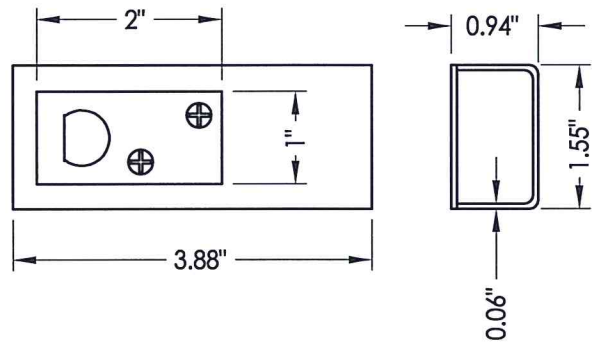
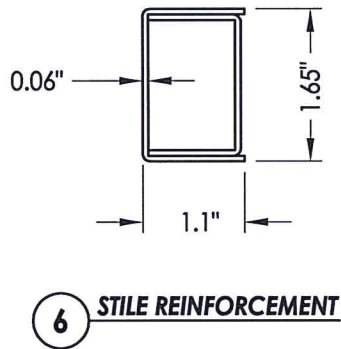


2 CAL-ROYAL DOOR PANEL
7' Inactive Door Panel w/ Flushbolt
@ head and sill

STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



1
5 HORIZONTAL CROSS SECTION



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

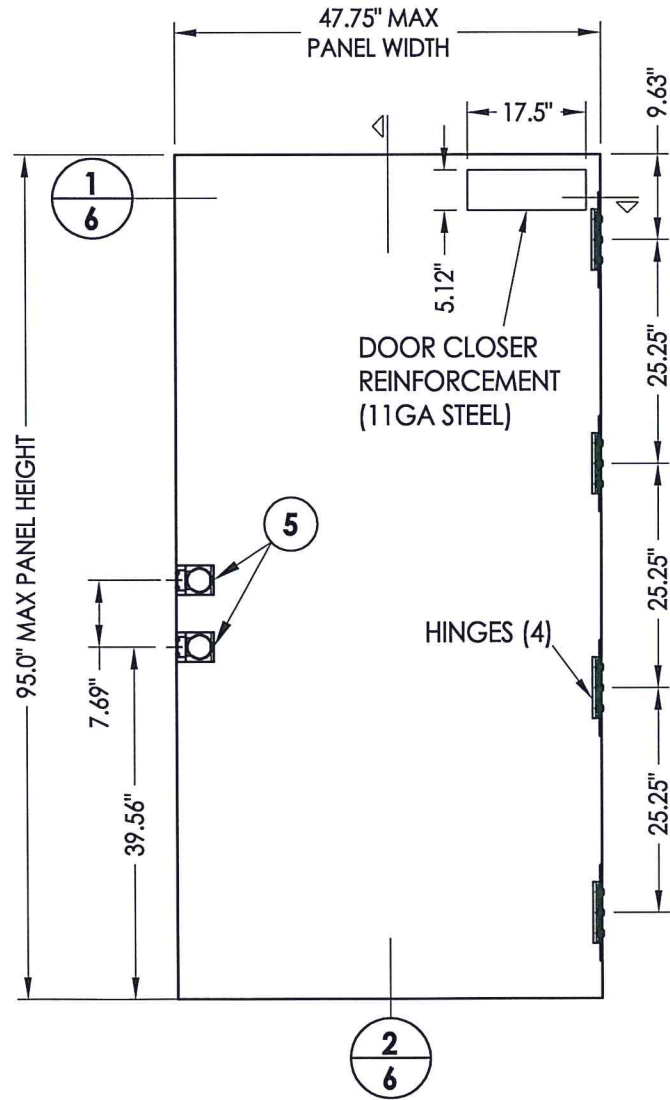
PRODUCT:
CAL-ROYAL
LOCK AND DEADBOLT

PART OR ASSEMBLY:
DOOR PANEL DETAILS
(7' inactive panel)

NO.	DATE	REVISIONS
7	7/05/23	UPDATE TO 8TH ED. (2023) FBC
6	11/16/20	UPDATE TO 7TH ED. (2020) FBC
5	9/27/17	UPDATE TO 6TH ED. (2017) FBC
4	1/27/15	UPDATE TO 5TH ED. (2014) FBC
3	8/14/14	ADDED 52"x98" SINGLE OUTSWING
2		
1		

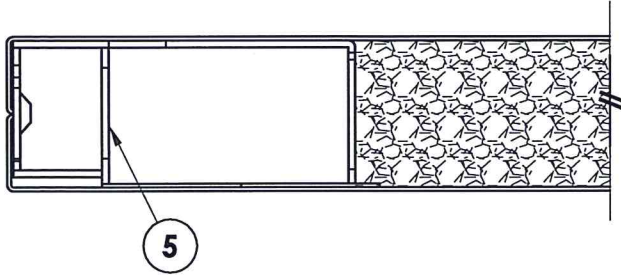
DATE: 5/12/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-13922.6
SHEET 5 OF 6

Z:\2023 FBC Drawings\CAL-ROYAL\FL-13922 R9\FL-13922.5-6.dwg

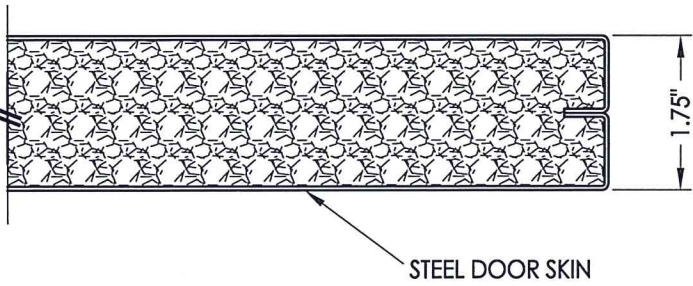


3 CAL-ROYAL STEEL DOOR PANEL
8' Active Door Panel

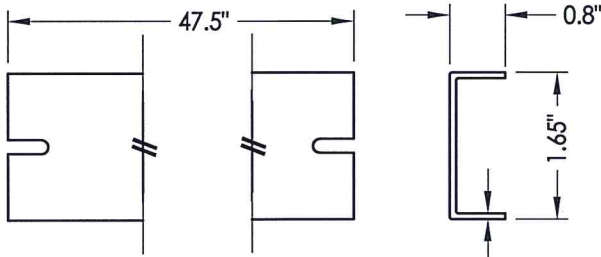
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



1 HORIZONTAL CROSS SECTION
6

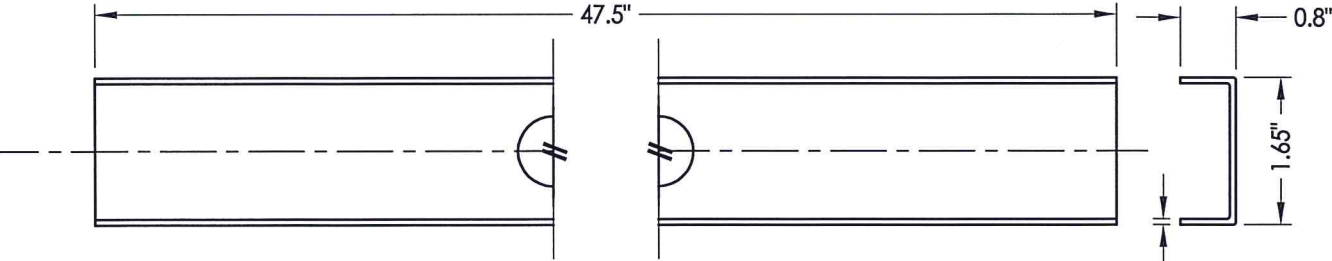


STEEL DOOR SKIN

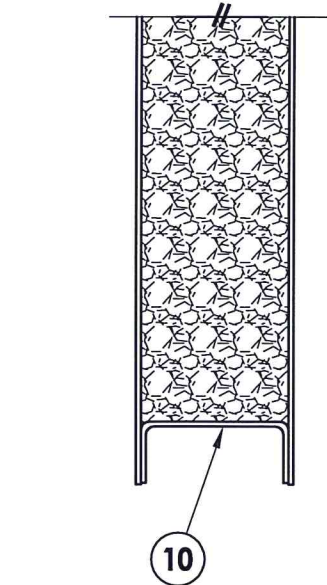
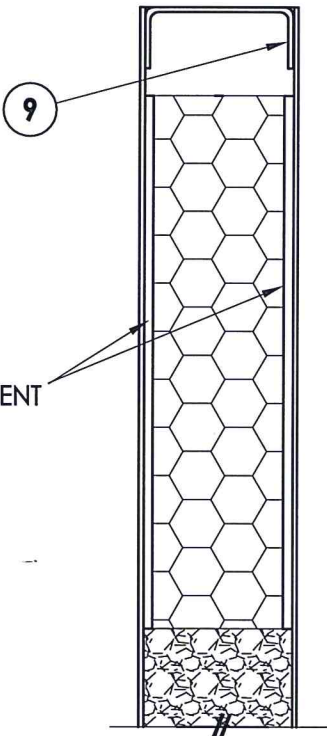


9 FLUSH TOP CHANNEL
Steel

DOOR CLOSER REINFORCEMENT



10 BOTTOM CHANNEL
Steel



1 VERTICAL CROSS SECTION
6

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT: CAL-ROYAL
LOCK AND DEADBOLT

NO.	DATE	REVISIONS
7	7/05/23	UPDATE TO 8TH ED. (2023) FBC
6	11/16/20	UPDATE TO 7TH ED. (2020) FBC
5	9/27/17	UPDATE TO 6TH ED. (2017) FBC
4	1/27/15	UPDATE TO 5TH ED. (2014) FBC
3	8/14/14	ADDED 52"x98" SINGLE OUTSWING
2		
1		

DATE: 5/12/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-13922.6
SHEET 6 OF 6

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813